

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M STREET, S.W.**  
**WASHINGTON, D.C. 20460**

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**DATA MATRIX**

Date 3/12/2010

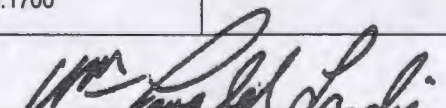
EPA Reg. No./File Symbol 55272-XX

Page 1 of 12

Applicant's/Registrant's Name & Address  
 Ingenieria Industrial S.A. de C.V.  
 Av. Coyoacan 1878-403  
 Col. Del Valle  
 03310 Mexico, D.F.

Product  
 Copper Hydroxide Technical 90%

Ingredient Copper Hydroxide

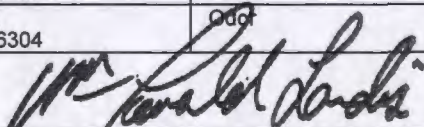
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group A - Product Identity, Composition and Analysis Test Guidelines</b>					
830.1550	Product Identity and Composition		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 1
830.1600	Description of Materials Used to Produce the Product		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 1
830.1620	Description of Production Process		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 1
830.1670	Description of Formation of Impurities		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 1
830.1700	Preliminary Analysis		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 2
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 3/12/2010

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Form Approved OMB No. 2070-0060

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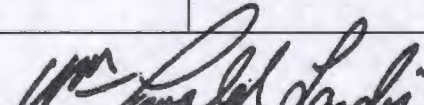
Date 3/12/2010		EPA Reg. No./File Symbol 55272-XX		Page 2 of 12	
Applicant's/Registrant's Name & Address Ingenieria Industrial S.A. de C.V. Av. Coyoacan 1878-403 Col. Del Valle 03310 Mexico, D.F.		Product Copper Hydroxide Technical 90%			
Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group A - Product Identity, Composition and Analysis Test Guidelines (Continued)</b>					
830.1750	Certified Limits		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 1
830.1800	Enforcement Analytical Method		Ingenieria Industrial S.A. de C.V.	OWN	See Volume 1
<b>Group B - Physical/Chemical Properties Test Guidelines</b>					
830.6302	Color	43363805	Copper Sulfate Task Force	OWN	
830.6303	Physical State	43363805	Copper Sulfate Task Force	OWN	
830.6304	Odor	43363805	Copper Sulfate Task Force	OWN	
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 3/12/2010



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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group B - Physical/Chemical Properties Test Guidelines (Continued)</b>					
830.6313	Stability to Sunlight, Normal and Elevated Temperatures, Metals and Metal Ions	43363805 47644901	Copper Sulfate Task Force Phibro Tech, Inc.	OWN PER	
830.6314	Oxidizing or Reducing Action	47524201	Phibro Tech, Inc.	PER	
830.6315	Flammability	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
830.6316	Explosibility	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
830.6317	Storage Stability				
830.6319	Miscibility	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 3/12/2010



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Ingenieria Industrial S.A. de C.V.  
Av. Coyoacan 1878-403  
Col. Del Valle  
03310 Mexico, D.F.

Product  
Copper Hydroxide Technical 90%

Ingredient Copper Hydroxide

Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group B - Physical/Chemical Properties Test Guidelines (Continued)</b>					
830.6320	Corrosion Characteristics				
830.6321	Dielectric Breakdown Voltage	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
830.7000	pH of Water Solutions or Suspensions	43363805	Copper Sulfate Task Force	OWN	
830.7050	UV/Visible Absorption	47521702 47465001	Phibro Tech, Inc.	PER	
830.7100	Viscosity	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
830.7200	Melting Point/Melting Range	43363805	Copper Sulfate Task Force	OWN	

Signature

Name and Title  
Wm. Ronald Landis, Ph.D. Regulatory Agent

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3/12/2010

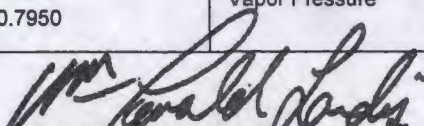


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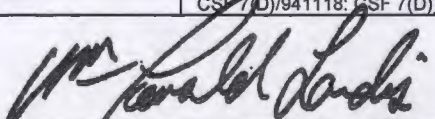
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Applicant's/Registrant's Name & Address Ingenieria Industrial S.A. de C.V. Av. Coyoacan 1878-403 Col. Del Valle 03310 Mexico, D.F.			Product  Copper Hydroxide Technical 90%		
Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group B - Physical/Chemical Properties Test Guidelines (Continued)</b>					
830.7220	Boiling Point/Boiling Range	N/A	N/A	N/A	This study is required on liquids this product is a solid.
830.7300	Density/Relative Density	43363805	Copper Sulfate Task Force	OWN	
830.7370	Dissociation Constant in Water	N/A	N/A	N/A	This study is not applicable to this product.
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	N/A	N/A	N/A	This study is not applicable to this product.
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	N/A	N/A	N/A	This study is not applicable to this product.
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	43363805	Copper Sulfate Task Force	OWN	
830.7860	Water Solubility: Generator Column Method	43363805	Copper Sulfate Task Force	OWN	
830.7950	Vapor Pressure	N/A	N/A	N/A	This study is not applicable to this product.
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Applicant's/Registrant's Name & Address Ingenieria Industrial S.A. de C.V. Av. Coyoacan 1878-403 Col. Del Valle 03310 Mexico, D.F.			Product Copper Hydroxide Technical 90%		
Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group A - Aquatic Fauna Test Guidelines</b>					
850.1010	Submission of Environmental Fate Data in Support for Reregistration of Pesticide Products Containing Copper Sulfate.	41189000	Copper Sulfate Task Force	OWN	
850.1010	An Aquatic Sediment Dissipation Study of Copper Sulfate in the Hillborough Reservoir, Florida [Wildlife International Ltd. Project ID 241-101]	41189001	Copper Sulfate Task Force	OWN	
850.1010	Residue and Incidence Monitoring of Aquatic Sites Treated with Copper-Containing Pesticides [Orius Associates, Inc. Project No. 26887:File/Issue No. 35-COP/89024]	41189002	Copper Sulfate Task Force	OWN	
850.1950	Submission of Environmental Fate Data in Support for Reregistration of Pesticide Products Containing Copper Sulfate.	42033700	Copper Sulfate Task Force	OWN	
850.1950	Letter Response to Review of Response to Copper Incident Monitoring Study Data Evaluation Record [Orius Associates, Inc. Lab Project # 26687: File/Issue No. 35-COP/91078]	42033701	Copper Sulfate Task Force	OWN	
<b>Group B - Terrestrial Wildlife Test Guidelines</b>					
850.2100	Avian Oral LD <sub>50</sub> (Mallard or Bobwhite)				Refer to comment # 1 below
850.2200	Avian Dietary LC <sub>50</sub> (Mallard or Bobwhite)				Refer to comment # 1 below
<b>Group E - Toxicity to Microorganisms Test Guidelines</b>					
850.5400	Submission of Hazard to Aquatic Plants Data in Support of Registration Standard for Copper Compounds.	43363600	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition ( <i>Navicula pelliculosa</i> ) [Huntingdon Research Centre, Ltd. Lab Product # : CSF 7(D)/941118: CSF 7(D)].	43363601	Copper Sulfate Task Force	OWN	
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Applicant's/Registrant's Name & Address Ingenieria Industrial S.A. de C.V. Av. Coyoacan 1878-403 Col. Del Valle 03310 Mexico, D.F.	Product Copper Hydroxide Technical 90%

Ingredient Copper Hydroxide

Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group E - Toxicity to Microorganisms Test Guidelines (cont.)</b>					
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition ( <i>Anabaena flos-aquae</i> ) [Huntingdon Research Centre, Ltd. Lab Product #: CSF 7(C)/941123: CSF 7(C)].	43363602	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition ( <i>Selenastrum capricornutum</i> ) [Huntingdon Research Centre, Ltd. Lab Project #: CSF 7(B)/941112: CSF 7(B)].	43363603	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Higher Plant ( <i>Lemna</i> ) Growth Inhibition Test [Huntingdon Research Centre, Ltd. Lab Project #: CSF 7(A)/941127: CSF 7(A)].	43363604	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition ( <i>Skeletonema costatum</i> ) [Huntingdon Research Centre, Ltd. Lab Project #: CSF 7(E)/941129: CSF 7(E)].	43363605	Copper Sulfate Task Force	OWN	
<b>Series 860 - Residue Chemistry Test Guidelines</b>					
860.1300	Nature of Residue: Plants				Refer to comment # 1 below
860.1340	Residue Analytical Method				Refer to comment # 1 below
860.1360	Mag. Of Res. - Crop Field Trials				Refer to comment # 1 below
860.1400	Mag. Of Res. - Potable Water				Refer to comment # 2 below
860.1400	Mag. Of Res. - Fish				Refer to comment # 1 below
860.1550	Proposed Tolerance				Refer to comment # 1 below

Signature 	Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent	Date 3/12/2010
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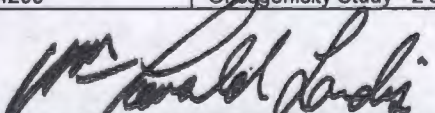
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<b>Applicant's/Registrant's Name &amp; Address</b> Ingenieria Industrial S.A. de C.V. Av. Coyoacan 1878-403 Col. Del Valle 03310 Mexico, D.F.	<b>Product</b> Copper Hydroxide Technical 90%	

**Ingredient** Copper Hydroxide

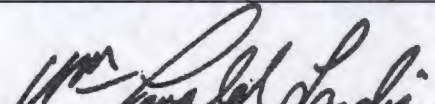
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group A - Acute Toxicity Test Guidelines</b>					
870.1100	Acute Oral Toxicity	42235201	Griffin, L.L.C.	OLD	
870.1200	Acute Dermal Toxicity	42235202	Griffin, L.L.C.	OLD	
870.1300	Acute Inhalation Toxicity	42481201	Griffin, L.L.C.	OLD	
<b>Group B - Specific Organ/ Tissue Toxicity Test Guidelines</b>					
870.2400	Primary Eye Irritation	40237402 40077002	Griffin, L.L.C.	OLD	
870.2500	Primary Dermal Irritation	N/A	N/A	N/A	Refer to Waiver # 1 below
870.2600	Dermal Sensitization	N/A	N/A	N/A	Refer to Waiver # 2 below
<b>Group C - Subchronic Toxicity Test Guidelines</b>					
870.3100 870.3150	90-day Feeding Studies - Rodent and Nonrodent				Refer to comment # 3 below
870.3700	Teratogenicity - 2 Species				Refer to comment # 1 below
870.3800	Reproduction, 2-generation				Refer to comment # 1 below
<b>Group D - Chronic Toxicity Test Guidelines</b>					
870.4100	Chronic Feeding - 2 spp. Rodent and nonrodent				Refer to comment # 1 below
870.4200	Onco-genicity Study - 2 spp. Rat and Mouse				Refer to comment # 1 below
Signature				<b>Name and Title</b> Wm. Ronald Landis, Ph.D. Regulatory Agent	<b>Date</b> 3/12/2010



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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>Group E - Genetic Toxicity Test Guidelines</b>					
870.5100	Gene Mutation				Refer to comment # 1 below
870.5300 870.5375	Structural Chromosome Aberration				Refer to comment # 1 below
870.5385 870.5395	Other Genotoxic Effects				Refer to comment # 1 below
<b>Group F - Neurotoxicity Test Guidelines</b>					
870.6100	Acute Delayed Neurotoxicity -Hen				Refer to comment # 3 below
<b>Group G - Special Studies Test Guidelines</b>					
870.7485	General Metabolism				Refer to comment # 1 below
<b>Group B - Postapplication Exposure Monitoring Test Guidelines</b>					
875.2000 875.2400	Monitoring Exposure of Workers During Reentry into Orange Groves and Determination of Dislodeable Residues of Copper after Application of Tennessee Brand® Tri-Basic® Copper Sulfate Fungicide to Oranges in California [Landis International, Inc. Study No. 12601A003]	44466901	Copper Sulfate Task Force	OWN	
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 3/12/2010



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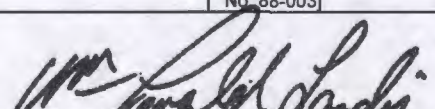
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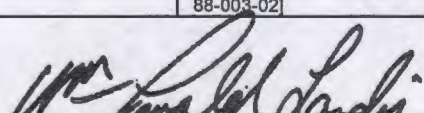
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Applicant's/Registrant's Name & Address Ingenieria Industrial S.A. de C.V. Av. Coyoacan 1878-403 Col. Del Valle 03310 Mexico, D.F.			Product  Copper Hydroxide Technical 90%		
Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
<b>40 CFR §158.290 Environmental Fate Data Requirements</b>					
161-1	Degradation Studies - Hydrolysis				Refer to comment # 3 below
161-2	Degradation Studies - Photodegradation: In Water				Refer to comment # 3 below
162-1 and 162-2	Submission of Environmental Fate Data in Support of the Copper Sulfate Registration Standard.	40879600	Copper Sulfate Task Force	OWN	
162-3, 162-4 and 163-1	Literature Review to Characterize the Adsorption Potential of Copper in the Environment [HydroQual, Inc. Project No. CSTF-0010]	40879601	Copper Sulfate Task Force	OWN	
164-1	Analytical Report for Terrestrial Outdoor Field Dissipation Studies with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003-002]	41003801	Copper Sulfate Task Force	OWN	
164-1	Method Validation Report for Terrestrial Outdoor Field Dissipation Study with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003]	41003802	Copper Sulfate Task Force	OWN	
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 3/12/2010



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Ingredient Copper Hydroxide							
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note		
<b>40 CFR §158.290 Environmental Fate Data Requirements (cont.)</b>							
164-1	Terrestrial Outdoor Field Dissipation Study with Copper-Containing Pesticides: Interim Study Report [Orius Associates, Inc. Project No. 24086:File/Issue No. 35-COP/89006]	41003803	Copper Sulfate Task Force	OWN			
164-1	Submission of Environmental Fate Data in Support for Reregistration of Pesticide Products Containing Copper Sulfate	41116800	Copper Sulfate Task Force	OWN			
164-1	Metallic Copper Environmental Fate on Citrus in Florida [Biospherics, Inc. Protocol No. 1641-88-121-01-01A-01]	41116801	Copper Sulfate Task Force	OWN			
164-1 and 164-2	Submission of Data to Support Registration of Copper Sulfate: Environmental Fate Studies.	41003800	Copper Sulfate Task Force	OWN			
164-1 and 164-2	Summary of Results and Conclusions for Aquatic and Terrestrial Field Dissipation Studies with the Residue and Incidence Monitoring Survey [Orius Associates, Inc. Project No. 24086: File/Issue No. 35-CO/89020].	41003805	Copper Sulfate Task Force	OWN			
164-2	Submission of Data to Support Registration of Copper Sulfate and Group II Copper Compounds: Residue Chemistry Study.	40968200	Copper Sulfate Task Force	OWN			
164-2	Method Validation Report for Aquatic Outdoor Field Dissipation Study with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003]	40968201	Copper Sulfate Task Force	OWN			
164-2	Analytical Report for Aquatic Outdoor Field Dissipation Studies with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003-02]	41003804	Copper Sulfate Task Force	OWN			
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 3/12/2010		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M STREET, S.W.  
WASHINGTON, D.C. 20460

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## DATA MATRIX

Date 3/12/2010

EPA Reg. No./File Symbol

55270-XX

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Applicant's/Registrant's Name & Address  
Ingenieria Industrial S.A. de C.V.  
Av. Coyoacan 1878-403  
Col. Del Valle  
03310 Mexico, D.F.

Product

Copper Hydroxide Technical 90%

Ingredient Copper Hydroxide

COMMENT #1: Not required per CFR 40 Part 180.1021 (a) and EPA document titled: "Guidance for the reregistration of pesticide products containing as the active ingredient copper sulfate. Case #0636, CAS #1344-73-6"

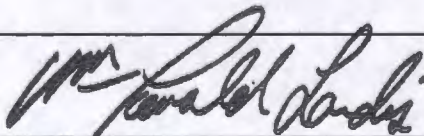
COMMENT #2: 1 ppm in potable water as per CFR 40 Part 180.536

COMMENT #3: Not required per CFR 40 Part 180.1021 (a) and EPA document titled: "Guidance for the reregistration of pesticide products containing as the active ingredient copper sulfate. Case #0636, CAS #1344-73-6"

WAIVER #1: This product is a known skin irritant. The Level I/Toxicity Category I user precautions appear on the label.

WAIVER #2: Per "Guidance for the Reregistrations of Pesticide Products Containing Group II Copper Compounds as the active Ingredient", (EPA April 1987), copper is a known skin sensitizer and data are not required.

Signature



Name and Title

Wm. Ronald Landis, Ph.D. Regulatory Agent

Date

3/12/2010